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— before the expiration of the time limit for amending the  
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**Declaration under Rule 4.17:**

— of inventorship (Rule 4.17(iv)) for US only

**Published:**

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US 03/32261

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61B10/00 A61B5/15 B01L3/14

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61B B01L A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 184 210 B1 (CAI SUI XIONG ET AL) 6 February 2001 (2001-02-06) cited in the application	1
A	column 5, line 29 - line 33	28,36, 44,51,61
A	US 5 807 970 A (ROUNDS RHYTA S) 15 September 1998 (1998-09-15) column 5, line 38 - line 47	1,28,36, 44,51,61
A	US 6 221 655 B1 (FUNG BERNARD KWOK-KEUNG ET AL) 24 April 2001 (2001-04-24) column 9, line 6 - line 10; figure 1	1,28,36, 44,51,61

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*8\* document member of the same patent family

Date of the actual completion of the international search

16 March 2004

Date of mailing of the international search report

26/03/2004

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# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US 03/32261

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 66-76  
because they relate to subject matter not required to be searched by this Authority, namely:  
Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 03/32261

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6184210	B1	06-02-2001	US	2003181391 A1	25-09-2003
			US	6596693 B1	22-07-2003
			AU	741203 B2	22-11-2001
			AU	9793098 A	03-05-1999
			BR	9814817 A	08-01-2002
			CA	2306692 A1	22-04-1999
			CN	1138472 C	18-02-2004
			EP	1033910 A1	13-09-2000
			JP	2001519358 T	23-10-2001
			NO	20001323 A	13-06-2000
			WO	9918781 A1	22-04-1999
US 5807970	A	15-09-1998	US	5663285 A	02-09-1997
US 6221655	B1	24-04-2001	NONE		